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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,683	04/04/2006	Ulrich Bohne	3622	2207
Striker, Striker	7590 03/30/201 & Stenby	EXAMINER		
103 East Neck Road			FLORES SANCHEZ, OMAR	
Huntington, NY 11743			ART UNIT	PAPER NUMBER
			3724	
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			03/30/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/574,683	BOHNE, ULRICH
Office Action Summary	Examiner	Art Unit
	Omar Flores-Sánchez	3724
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with t	he correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. PONED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>04 A</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters	•
Disposition of Claims		
4) ☑ Claim(s) 1-8,10,13-20,22 and 24-33 is/are per 4a) Of the above claim(s) 33 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-8,10,13-20,22 and 24-32 is/are rejuint of the company of the com	from consideration.	
Application Papers		
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination	cepted or b) objected to by to drawing(s) be held in abeyance.	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applority documents have been recaule (PCT Rule 17.2(a)).	ication No reived in this National Stage
Attachment(s)	"□	(DTO 412)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Ma	mary (PTO-413) ail Date nal Patent Application

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DETAILED ACTION

1. This action is in response to applicant's amendment received on 08/04/10.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the cup spring must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claim 27-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 27 recites the limitation "chamfers". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-3, 10, 13, 17-20, 22, 23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) and Winter (3,905,374).

Raines discloses (Fig. 1-20) the invention substantially as claimed including a centering element 22 has circular cross-section, a bearing flange (e.g., 14 or 24), a form-locking element/pin-like form (e.g., 84 and 85), a tool (Fig. 7-10), a power tool 10, a drive shaft 12, See Fig. 12 the radius associated with one position of the form-locking element is more than twice as large as a radius of the centering element, at least one slaving face (the outer surface of the boss), a recess (e.g., 34) with circumferential edge of 360 degrees and a diameter of 4-8 mm (inherently disclosed). Raines discloses the claimed invention except for a radius associated with one position or said form-locking element is four times as large as a radius of said centering element. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the a radius associated with one

position or said form-locking element is eight times as large as a radius of said centering element for the purpose of having a better connection, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum value or workable ranges involves only routine skill in the art. In re Aller, 105USPQ 233.

Raines discloses the invention substantially as claimed except for at least twelve form-locking elements. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing at least twelve form-locking elements for the purpose of increasing the degree of freedom of the blade, since it has been held that mere duplication of essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

Raines discloses the invention substantially as claimed except a quadrangular cross section/trapezoidal cross section which is perpendicular to an axis of the shaft. However, Winter teaches the use of a locking element 19 having a trapezoidal cross section (see Fig. 2) which is perpendicular to an axis of the shaft for the purpose of providing a secure and stable engagement of the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the locking element of Raines by providing the trapezoidal cross section as taught by Winter in order to obtain a device that provides a secure and stable engagement of the blade.

7. Claims 4-5, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Trott (5,729,904).

The modified device of Raines discloses the invention substantially as claimed except for at least three or four rotary positions. However, Trott teaches the use of pins 32 for the purpose

of connecting the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the pins as taught by Trott in order to obtain a device that quickly connects the blade. Trott pins are capable of connecting the blade in at least three or four rotary positions.

8. Claims 6 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Trott (5,729,904) as set forth in claim 5.

The modified device of Raines discloses the invention substantially as claimed except for at least twelve rotary positions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing at least twelve rotary positions for the purpose of increasing the degree of freedom of the blade, since it has been held that mere duplication of essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. The locking element of Raines are capable of operate with tools having triple symmetry and a quadruple symmetry by locating the circular locking element resting in the side walls.

9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Hutchins et al. (5,694,693).

The modified device of Raines discloses the invention substantially as claimed except for at least one chamfer. However, Hutchins et al. teaches the use of at least one chamfer (see Fig. 5-6) for the purpose of easily securing the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines

by providing at least one chamfer as taught by Hutchins et al. in order to obtain a device that easily secures the blade.

10. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Jasch (6,796,888 B2).

The modified device of Raines discloses the invention substantially as claimed except for a spring element. However, Jasch teaches the use of a spring element 98 for the purpose of preventing a release of the screw in operation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the spring element as taught by Jasch in order to obtain a device that prevents a release of the screw in operation.

11. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) as applied to claim 6 above.

The modified device of Raines discloses the claimed invention except for twelve rotary positions differ from each of their adjacent rotary positions by 30°. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the twelve rotary positions differ from each of their adjacent rotary positions by 30°, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum value or workable ranges involves only routine skill in the art. In re Aller, 105USPQ 233.

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12. Claims 27-29 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Jasch (6,796,888 B2), Winter (3,905,374) and Hutchins et al. (5,694,693).

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Raines discloses the invention substantially as claimed including a centering element/fastening screw 22, a bearing flange (e.g., 14 or 24), at least one form-locking element (for example, 84 and 85), a tool (Fig. 7-10), a power tool 10 and a drive shaft 12. Raines doesn't show at least twelve rotary positions. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing at least twelve rotary positions for the purpose of increasing the degree of freedom of the blade, since it has been held that mere duplication of essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. The locking element of Raines are capable of operate with tools having triple symmetry and a quadruple symmetry by locating the circular locking element resting in the side walls. Also, Raines discloses the claimed invention except for a radius associated with one position or said form-locking element is four times as large as a radius of said centering element. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the a radius associated with one position or said form-locking element is eight times as large as a radius of said centering element for the purpose of having a better connection, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum value or workable ranges involves only routine skill in the art. In re Aller, 105USPQ 233.

Raines discloses the invention substantially as claimed except for a spring element. However, Jasch teaches the use of a spring element 98 for the purpose of preventing a release of the screw in operation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the spring element as taught by Jasch in order to obtain a device that prevents a release of the screw in operation. The spring is capable of deflecting the tool past the chamfers. The spring element has a shape like a cup spring (see Fig. 16).

Raines discloses the invention substantially as claimed except a quadrangular cross section/trapezoidal cross section which is perpendicular to an axis of the shaft. However, Winter teaches the use of a locking element 19 having a trapezoidal cross section (see Fig. 2) which is perpendicular to an axis of the shaft for the purpose of providing a secure and stable engagement of the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the locking element of Raines by providing the trapezoidal cross section as taught by Winter in order to obtain a device that provides a secure and stable engagement of the blade.

Raines discloses the invention substantially as claimed except for chamfers. However, Hutchins et al. teaches the use of chamfers (see Fig. 5-6) for the purpose of easily securing the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing chamfers as taught by Hutchins et al. in order to obtain a device that easily secures the blade.

13. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Arnegger (4,252,121) and Winter (3,905,374).

Raines discloses the invention substantially as claimed including a centering element 22, form-locking elements (for example, 84 and 85), a tool (Fig. 7-10), a power tool 10 and a drive shaft 12. Raines doesn't show an inclined section. However, Arnegger teaches the use of a locking element 51 having an inclined section 52 (see Fig. 5) for the purpose of allowing certain cases a better accessibility to perform the cutting operation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the locking element of Raines by providing the inclined section as taught by Arnegger in order to obtain a device that allows certain cases a better accessibility to perform the cutting operation.

Raines discloses the invention substantially as claimed except a quadrangular cross section/trapezoidal cross section which is perpendicular to an axis of the shaft. However, Winter teaches the use of a locking element 19 having a trapezoidal cross section (see Fig. 2) which is perpendicular to an axis of the shaft for the purpose of providing a secure and stable engagement of the blade. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the locking element of Raines by providing the trapezoidal cross section as taught by Winter in order to obtain a device that provides a secure and stable engagement of the blade.

14. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Raines (5,366,312) in view of Arnegger (4,252,121) and Winter (3,905,374) as applied to claim 30 above, and further in view of Jasch (6,796,888 B2).

The modified device of Raines discloses the invention substantially as claimed except for a spring element. However, Jasch teaches the use of a spring element 98 for the purpose of preventing a release of the screw in operation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Raines by providing the spring element as taught by Jasch in order to obtain a device that prevents a release of the screw in operation.

Response to Arguments

15. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omar Flores-Sánchez whose telephone number is 571-272-4507. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/O. F./ Examiner, Art Unit 3724 3/25/2011

/Boyer D. Ashley/ Supervisory Patent Examiner, Art Unit 3724